

(19) KOREAN INTELLECTUAL PROPERTY OFFICE

KOREAN PATENT ABSTRACTS

(11)Publication number: 1020010054934 A
 (43)Date of publication of application: 02.07.2001

(21)Application number: 1019990055930
 (22)Date of filing: 08.12.1999

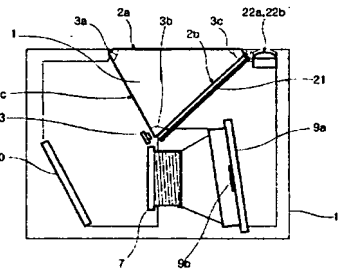
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(51)Int. Cl G06K 9 /20

(54) SUBMINIATURE OPTICAL FINGERPRINT INPUT DEVICE

(57) Abstract:

PURPOSE: A subminiature optical fingerprint input device is provided to input a clear fingerprint image and to construct a subminiature fingerprint input device. CONSTITUTION: An optical input device(17) transmits a fingerprint image inputted through an optical prism to a CMOS camera(9a). An interface device receives the fingerprint image from the CMOS camera(9a) by one frame at high speed and stores the image in a memory and transmits the image to a user at high speed. The prism(1) is installed on the optical input device(17) by allocating a fingerprint picking surface(2a) of the prism(1). An illumination(23) is installed at the lower portion of one slant surface (2c) of the prism(1). A light blocking film(21) is installed at the outer surface of the other slant surface of the prism(1). A reflection mirror(20) reflects the reflected fingerprint image through the one slant surface (2c) of the prism(1). A focusing lens system(7) is provided at the lower portion of the prism(1) for focusing the reflected fingerprint picking surface. An adjacent sensor senses a contact of a finger to the fingerprint picking surface(2a). The interface device includes a fingerprint control unit and a memory(RAM). The fingerprint control unit senses an access of the finger from the adjacent sensor, and receives the fingerprint image from the CMOS camera(9a). The memory stores the fingerprint image and transmits the fingerprint image to a fingerprint comparing device.



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Legal Status

Date of request for an examination (19991208)
 Notification date of refusal decision (00000000)
 Final disposal of an application (rejection)
 Date of final disposal of an application (20020312)
 Patent registration number ()

Date of registration (00000000)

Number of opposition against the grant of a patent ()

Date of opposition against the grant of a patent (00000000)

Number of trial against decision to refuse ()

Date of requesting trial against decision to refuse ()